

Abstract

A method system, and program product for managing a relational database in a pervasive computing environment. The system receives queries in a query language, and represents the queries in accordance with a declarative language paradigm, this may be explicit or implicit. The queries represented in a declarative language paradigm are converted (e.g., represented, translated, or cross-compiled) to an imperative language (including a data structure that is interpreted by an imperative language); and the imperative language queries are executed on the database. The queries may be explicitly converted to an intermediate declarative representative, and thereafter converted to an imperative language representation of the original queries for execution. Alternatively, the queries may be directly converted to an imperative language representation of the declarative language and the imperative language queries executed on the database.